

Good combination: Access to FlexRay and CAN with one device

Common hardware enables precise timestamps

Stuttgart, 11-15-2007 – The VN7600 FlexRay/CAN USB interface being introduced by Vector is a bus interface with two FlexRay channels and three CAN channels in one device. In bus analyses and simulations, developers of FlexRay/CAN applications benefit from simultaneous access to both bus systems with just one hardware module.



The combined hardware solution for FlexRay and CAN especially simplifies precise synchronization of the different bus systems with highly precise timestamps on a common time base. Compared to multiple separate solutions, this yields incomparably higher quality, since latencies must always be taken into consideration when interfacing via USB.

In the FlexRay section, special hardware features are integrated that extend well beyond standard FlexRay functionality and enable detailed analyses in the development stage. The 2 MB send queue, for example, supports simulation of multiple ECUs over the same interface on a PC/Notebook. Use of a second communication controller makes it possible to start the FlexRay cluster without additional network nodes. Moreover, an independent monitoring unit is provided for analysis of the network startup. On the CAN side, besides precise measurement of bus load and listening to the CAN bus in Silent Mode, the VN7600 offers other capabilities such as detecting and generating error frames. The VN7600 FlexRay/CAN interface was designed to provide optimal support for the Vector analysis and simulation tools CANalyzer and CANoe. The FPGA-based communication controller makes it possible to update the hardware and maintain its viability for the future. The bus transceivers are also interchangeable, since they are housed on separate piggyback boards (FRpiggies, CANpiggies).



[Figure: The new VN7600 USB interface provides two FlexRay and three CAN channels and supports highly precise acquisition of events with a uniform time base.]

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This know-how is conveyed in the form of products or as a comprehensive consultation package with system and software engineering. Workshops and seminars round out our multifaceted training program.

Worldwide customers in the automotive, heavy-duty vehicle, transport and control engineering fields rely on solutions and products from the independently-owned Vector Group.

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